

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently amended) A method for intelligent audio output control, the method comprising:  
periodically receiving values for each input parameter of a set of input parameters, wherein each input parameter affects environmental noise;  
receiving stored historical data, wherein the stored historical data comprises stored values for each input parameter of the set of input parameters and a stored audio output parameter value associated with the stored values for each input parameter of the set of input parameters, wherein the stored audio output parameter is set by a user, and wherein the stored historical data comprises a plurality of data points, ~~wherein each data point includes~~ comprising a stored value for each input parameter of the set of input parameters and the audio output parameter value associated with the stored value for each input parameter of the set of input parameters;  
responsive to a value for one or more of the periodically received values for each input parameter changing, predicting a value for an audio output parameter of an audio system based on the received values for each input parameter of the set of input parameters and the stored historical data; and  
adjusting the audio output parameter for the audio system using the predicted value for the audio output parameter, wherein ~~the step of~~ predicting a value for an audio output parameter comprises one of receiving the plurality of data points and performing statistical analysis on the plurality of data points to predict the value for the audio output parameter; and identifying a closest data point within the plurality of data points and setting the predicted value for the audio output parameter to an audio output parameter value of the closest data point.
2. (Currently amended) The method of claim 1, wherein ~~the step of~~ periodically receiving values for each of a set of input parameters includes periodically receiving values from one or more a plurality of sensors.
3. (Previously presented) The method of claim 1, wherein the set of input parameters includes at least one of vehicle speed, whether a vehicle window is open or closed, vehicle interior or exterior noise levels, whether a convertible top is up or down, whether a windshield wiper is in use, and windshield wiper level, ~~whether headlights are on, and global positioning system (GPS) coordinates.~~

4. (Currently amended) The method of claim 1, wherein the set of input parameters includes audio type, wherein the audio type comprises one of a song, a song type, talking, and a commercial.

5. (Canceled)

6. (Previously Presented) The method of claim 1, wherein the statistical analysis includes at least one of performing an average, performing linear regression analysis, performing multiple regression analysis, performing linear extrapolation, performing curve fitting, and removing outliers.

7-9. (Canceled)

10. (Original) The method of claim 1, wherein the audio output parameter is one of volume level, balance, fade, bass, treble, and equalizer settings.

11-21. (Canceled)

22. (New) The method of claim 1, wherein periodically receiving values for each input parameter of a set of input parameters comprises receiving the values for each input parameter of the set of input parameters every second.

23. (New) The method of claim 1, wherein the user comprises one of a plurality of users, and wherein a different stored audio output parameter is set by each of the plurality of users.